UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/658,648	09/09/2003	John D. Morris	5621-P1	3164	
49459 NALCO COME	7590 11/06/200 PANY	EXAMINER			
1601 W. DIEHI	L ROAD	DESAI, RITA J			
NAPERVILLE, IL 60563-1198			ART UNIT	PAPER NUMBER	
			1625		
		MAIL DATE	DELIVERY MODE		
			11/06/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Application	n No.	Applicant(s)				
		10/658,64	8	MORRIS ET AL.				
		Examiner		Art Unit				
		Rita J. Des	sai	1625				
Period fo	The MAILING DATE of this communication Reply	on appears on the	cover sheet with the c	orrespondence ac	ddress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR INCHEVER IS LONGER, FROM THE MAILI nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply is specified above, the maximum statutory to to reply within the set or extended period for reply will, be reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF TH CFR 1.136(a). In no evention. period will apply and wing y statute, cause the apply	IS COMMUNICATION int, however, may a reply be tind the spire SIX (6) MONTHS from the ication to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed or	n 11 August 2008						
-	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.							
3)	,—							
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	Claim(s) 1-32 is/are pending in the applic	cation.						
•	4a) Of the above claim(s) <u>3-31</u> is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
·—	6)⊠ Claim(s) <u>1, 2, 32</u> is/are rejected.							
· ·	Claim(s) is/are objected to.							
-	Claim(s) are subject to restriction	and/or election re	equirement.					
	on Papers							
	• The specification is objected to by the Ex	aminer						
•	-		Objected to by the F	- - - - - - - - - - - - - - - - - - -				
.0/	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
,—	ınder 35 U.S.C. § 119							
	-	oreign priority un	lor 35     S C & 110/2	L(d) or (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.							
	<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>							
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Oce the attached detailed Office action for a list of the certified copies not received.								
Attachmen			л <b>П</b>	(DTO 440)				
1) Notice of References Cited (PTO-892)  A) Interview Summary (PTO-413)  Discrete of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Information Disclosure Statement(s) (PTO/SB/08)								
Paper No(s)/Mail Date <u>8/11/08</u> . 6) Other:								

## **DETAILED ACTION**

Claims 1-32 are pending.

Claims 3-31 have been withdrawn. The rejection under 35 USC 103 1054436 Shenshu, Kasai GB 1003083, Noguchi JP 49-43688 and JP 47-12553 all still stands.

The applicants are arguing that their compounds are capable of free radical polymerization.

The compounds of the prior art also have a free radical and would be caplable of free radical polymerization.

The compounds of the prior art have the same substituents and hence the compounds would be obvious. Applicants arguments cannot take place of evidence to indicated that their compounds are superior. There is no side by side comparison. Applicants claims are drawn to compounds not to a method of polymerization.

In the absence of a timely filed declaration showing a sided by side comparison for the scope of the compounds claimed closest to the prior art, the obviousness rejection still stands.

The declaration provided would probably hold true for just the example 1 as given in the specification. It does not refer to the full scope of the compounds.

The rejection is being repeated here.

compound. Therefore, the Examiner has argued obviousness. The Applicants infer from the Examiner's rejection that crux of the rejection is based on structural similarity of the compounds and

that one of ordinary skill in the art would be motivated to modify the prior art and make the claimed

invention. Moreover, Applicants infer from the Examiner's comments that the previous analysis was not persuasive because "the prior art compounds may inherently polymerize" and that the claimed superior property is ndt convincing because of that fact.

Art Unit: 1625

"A *primafacie* case of obviousness based on structural similarity is rebuttable by proof that the claimed compounds possess unexpectedly advantageous or superior properties." MPEP 2144.09

(citing In *re Papesch*, 315 F.2d 381,137 USPQ 43 (CCPA 1963)). Contrary to the Examiner's position, the prior art monomers are not polymerizable. Contrary to the prior art, the present invention teaches a composition containing a naphthalimide containing fluorescent moiety that is polymerizable and therefore possesses a superior property over the prior art compounds cited by the

Examiner. Therefore, Applicants contend that the showing of a superior property of the claimed compound rebuts the rejection of obviousness based on structural similarity.

In view of the foregoing, Applicants request that pending claims I, 2 and 32 are allowed.

These arguments are not found to be persuasive at all.

There is nothing that states that applicants claims have unexpected properties,. The property of the compounds being fluorescent is expected from the prior art teaching. (see below).

Regarding applicants statement that the compounds are polymerizable and prior art compounds are not.

The examiner argues that there is nothing in the claim to say they are polymerizable. The claims are drawn to monomers. The compounds are similar in the prior art and inherently would also polymerize.

Senshu 1054436 teaches similar compounds . See formula I . It also clearly teaches that when the substance is dissolved or dispersed in a suitable liquid medium or when applied to a suitable material "emit a distinctive greenish blue fluorescence"

The compounds when dissolved or dispersed in a suitable liquid medium or when applied to a suitable material emit a distinctive greenish blue fluorescence in daylight or ultraviolet rays showing a wide absorption in the ultraviolet range. Further, the compounds generally have good stability and exhibit a good affinity with synthetic organic high molecular weight

Art Unit: 1625

materials. The compounds of formula (I) thus have a durable optical whitening effect on the synthetic materials of high molecular weight .

The preferred asphthalimide derivatives include N-alkyl-4 alkylibio-asphthalimides, N - bydrawyalkyl - 4 - slkylthin - outstationides, A - alkylthinasphthalimides, N - aryl - 4 - alkylthinasphthalimides, N - aryl - 4 - alkylthinasphthalimides, N - alkyl - 4 - bydrawyalkylthin - outstationides, N - alkyl - 4 - bydrawyalkylthin - outstationides, N - alkyl - 4 - bydrawyalkylthin - outstationides, N - alkyl - 4 - bydrawyalkylthinasphthalimides and N - alkyl - 4 - arylthinasphthalimides, N - alkyl - 4 - alkylthinasphthalimides, N - alkylthinasphthalimide

Amongst the preferred compounds are the one when R1 is a quaternary ammonium group.

Thus the scope is very similar and these compounds are also fluorescent.

Kasai GB 1003083, and Noguchi JP 49-43688, and JP 47-12553. also disclose similar compounds.

See column 5 and 6 of '688.

The use is the same.

Kasai "083 also teaches the same use

Art Unit: 1625

by

This invention relates to novel insplathalizable additionals which, when applied to off-white materials, about other-violet light from suchlight or thomsacut light and exist the absorbed energy as this light, to processes for producing said compounds, and to a method of improve the inightness of polymeric materials by treatment with taid compassed.

According to me sepect of the present invention there is provided a series of suphramidal compounds which can be represented by the general formula:—

minister and a state with a state of the sta

In view of the recent KSR v Teleflex the rationales for making obviousness rejections are given

Application/Control Number: 10/658,648

Page 6

Art Unit: 1625

## Rationales

(A) Combining prior art elements according to known methods to yield predictable results:

(B) Simple substitution of one known element for another to obtain

predictable results;

(C) Use of known technique to improve similar devices (methods, or products) in the same way;

(D) Applying a known technique to a known device (method, or product) ready for improvement to yield predictable results:

(E) "Obvious to try"—choosing from a finite number of identified, predictable solutions, with a reasonable expectation of success:

- (F) Known work in one field of endeavor may prompt variations of it for use in either the same field or a different one based on design incentives or other market forces if the variations would have been predictable to one of ordinary skill in the art;
- (G) Some teaching, suggestion, or motivation in the prior art that would have led one of ordinary skill to modify the prior art reference or to combine prior art reference teachings to arrive at the claimed invention.

In this case it would fall within the E as it would be obvious to try with a predictable expectation of success.

Claims 1, 2 and 32 stand rejected.

Claims 3-31 are withdrawn.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday, flex time..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on 571-272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/658,648 Page 8

Art Unit: 1625

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Rita J. Desai/ Primary Examiner, Art Unit 1625

R.D.

November 3, 2008